

ATGAAGCTCGCCGCCCTCTGGGGCTCTGCGTGGCCCTGTCCTGCAGCTCCGC  
TCGTGCTTTCTTAGTGGGCTCGGCCAAGCCTGTGGCCAGCCTGTCGCTGCGC  
TGGAGTCGGCGCGGAGGCCGGGGCCGGGACCCTGGCCAACCCCTCGGCA  
CCCTCAACCCGCTGAAGCTCCTGCTGAGCAGCCTGGGCATCCCCGTGAACCA  
CCTCATAGAGGGCTCCCAGAAGTGTGTGGCTGAGCTGGGTCCCCAGGCCGTG  
GGGCCGTGAAGGCCCTGAAGGCCCTGCTGGGGCCCTGACAGTGTGTTGGC

FIG. 1A

CGTGCTTTCTTAGTGGGCTCGGCCAAGCCTGTGGCCAGCCTGTCGCTGCGC  
GGAGTCGGCGCGGAGGCCGGGGCCGGGACCCTGGCCAACCCCTCGGCAC  
CCTCAACCCGCTGAAGCTCCTGCTGAGCAGCCTGGGCATCCCCGTGAACCA  
CCTCATAGAGGGCTCCCAGAAGTGTGTGGCTGAGCTGGGTCCCCAGGCCGTG  
GGGCCGTGAAGGCCCTGAAGGCCCTGCTGGGGCCCTGACAGTGTGTTGGC

FIG. 1B

TTCTTAGTGGGCTCGGCCAAGCCTGTGGCCAGCCTGTCGCTGCGCTGGAGTC  
GGCGCGGAGGCCGGGGCCGGGACCCTGGCCAACCCCTCGGCACCCCTCAAC  
CCGTGAAGCTCCTGCTGAGCAGCCTGGGCATCCCCGTGAACCACTCATAG  
AGGGCTCCCAGAAGTGTGTGGCTGAGCTGGGTCCCCAGGCCGTGGGGCCGT  
GAAGGCCCTGAAGGCCCTGCTGGGGCCCTGACAGTGTGTTGGC

FIG. 1C

MKLAALLGLCVLSCSSARAFVLVGSAPVAQPVAALESAAEAGAGTLANPLGTL  
NPLKLLSSLGIPVNHIEGSQKCVaelGPQAVGAVKALKALLGALTvFG

FIG. 2A

RAFLVGSAPVAQPVAALESAAEAGAGTLANPLGTLNPLKLLSSLGIPVNHIE  
GSQKCVaelGPQAVGAVKALKALLGALTvFG

FIG. 2B

FLVGSAPVAQPVAALESAAEAGAGTLANPLGTLNPLKLLSSLGIPVNHIEGS  
QKCVaelGPQAVGAVKALKALLGALTvFG

FIG. 2C

ATGAAGCTTACCACCACCTTTCTAGTGCTCTGTGTGGCTCTGCTCAGTGACTC  
TGGTGTTCCTTTCTTCATGGACTCATTGGCCAAGCCTGCGGTAGAACCCGTGG  
CCGCCCTTGCTCCAGCTGCAGAGGCTGTGGCAGGGGCTGTGCCTAGCCTACC  
ATTAAGCCACTTGCCCATCCTGAGGTTTCATCCTGGCCAGCATGGGCATCCCAT  
TGGATCCTCTCATAGAGGGATCCAGGAAGTGTGTACCCGAGCTGGGCCCTGA  
GGCTGTAGGAGCTGTGAAGTCACTGCTGGGGTCTGACAATGTTCCGGT

FIG. 3A

GTTGCTTTCTTCATGGACTCATTGGCCAAGCCTGCGGTAGAACCCGTGGCCGC  
CCTTGCTCCAGCTGCAGAGGCTGTGGCAGGGGCTGTGCCTAGCCTACCATT  
AGCCACTTGCCCATCCTGAGGTTTCATCCTGGCCAGCATGGGCATCCCATGG  
ATCCTCTCATAGAGGGATCCAGGAAGTGTGTACCCGAGCTGGGCCCTGAGGC  
TGTAGGAGCTGTGAAGTCACTGCTGGGGTCTGACAATGTTCCGGT

FIG. 3B

TTCTTCATGGACTCATTGGCCAAGCCTGCGGTAGAACCCGTGGCCGCCCTTG  
TCCAGCTGCAGAGGCTGTGGCAGGGGCTGTGCCTAGCCTACCATTAGCCAC  
TTGGCCATCCTGAGGTTTCATCCTGGCCAGCATGGGCATCCCATGGATCCTCT  
CATAGAGGGATCCAGGAAGTGTGTACCCGAGCTGGGCCCTGAGGCTGTAGGA  
GCTGTGAAGTCACTGCTGGGGTCTGACAATGTTCCGGT

FIG. 3C

MKLTTTFLVLCVALLSDSGVAFFMDSLAKPAVEPVAALAPAAEAVAGAVPSLPL  
SHLAILRFILASMGIPLDPLIEGSRKCVTELGP EAVGAVKSLLGVLTMFG

FIG. 4A

VAFFMDSLAKPAVEPVAALAPAAEAVAGAVPSLPLSHLAILRFILASMGIPLDPLI  
EGSRKCVTELGP EAVGAVKSLLGVLTMFG

FIG. 4B

FFMDSLAKPAVEPVAALAPAAEAVAGAVPSLPLSHLAILRFILASMGIPLDPLIEG  
SRKCVTELGP EAVGAVKSLLGVLTMFG

FIG. 4C

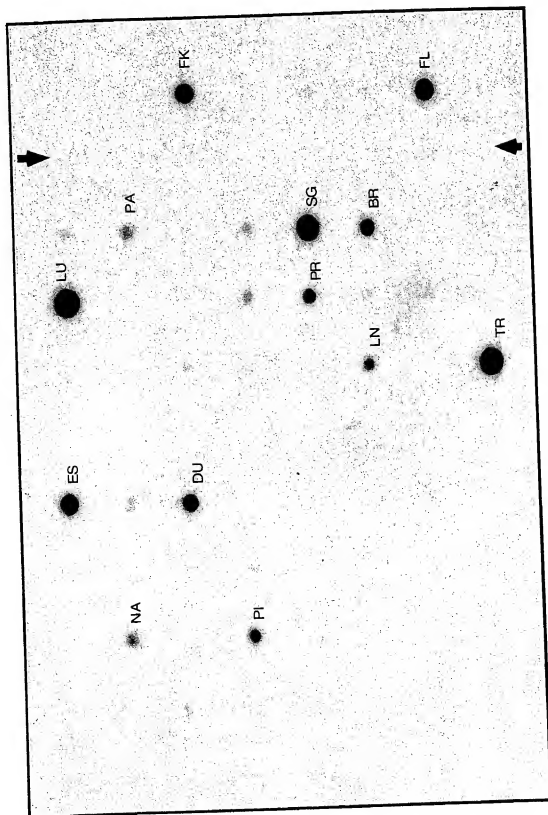


FIG. 5A

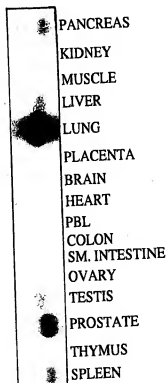


FIG. 5B



FIG. 5C



FIG. 5D



FIG. 5E

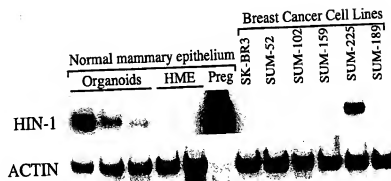


FIG. 5F

Appln No.: 10/081,817  
Applicant(s): Kornelia Polyak et al.  
H1 TUMOR SUPPRESSOR GENE

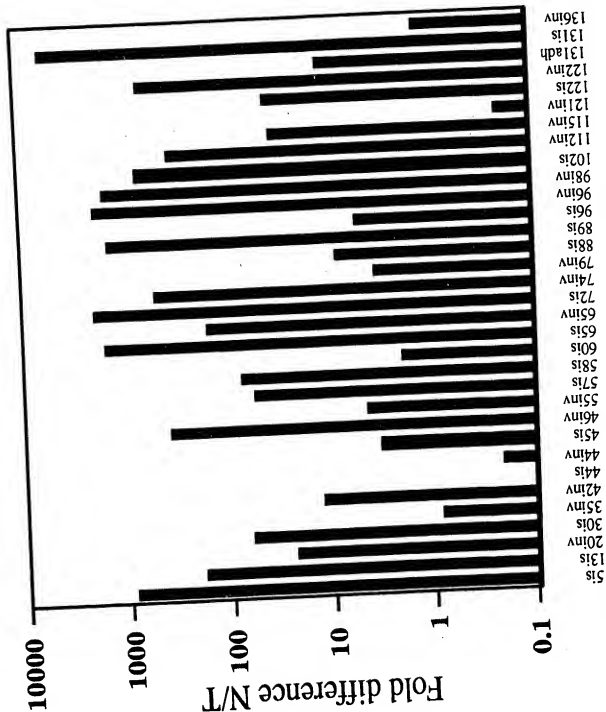
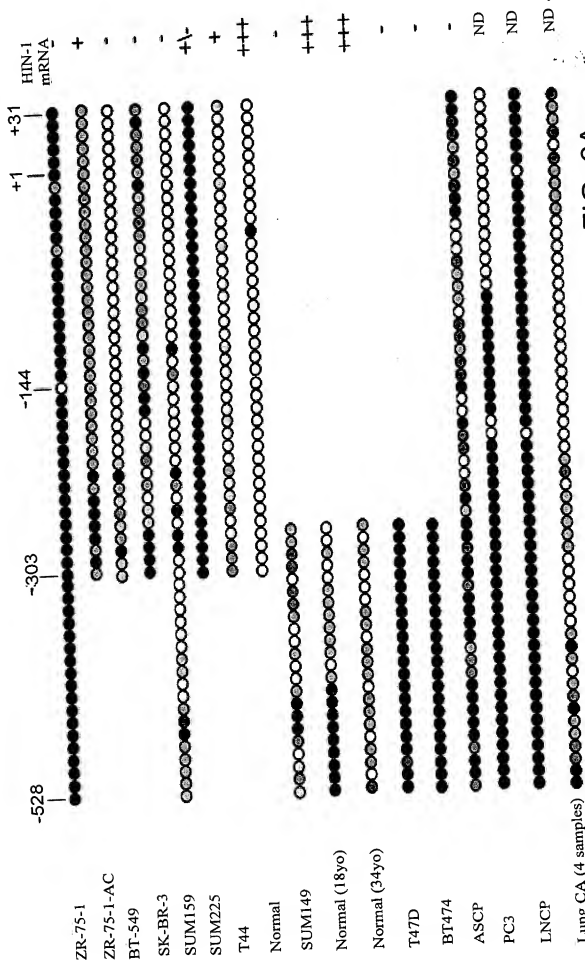
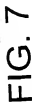
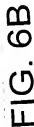


FIG. 5G



Applicant(s): Kornelia Polyak et al.  
HUMAN TUMOR SUPPRESSOR GENE



CGGCCGGGGAGGCGGCCGGGAGTGAGGCCTGATCGTCCCTGGCGCCTCCACC  
TCCCGAGGCGGAGAAAGGCGGCCACGAGGACCCCAAGTCCCGACGTGGCCAC  
GGTGTGGGATCAGAGGCAGGACCAAGGAGCCAGGAATGCGCCCGCCCCCG  
CCCTGCCCTGGCGCGAGGGAAGCTCCCTCACCNAGGGGAAGCTCCCTCAC  
CCGGCCAGCCCTGCAGGGGGGCGCGTGGGGTCAGACCGCAAAGCGAAGGT  
GCGGGCCGGGGTGGGCCTCGCGGAGACAAAGCCGGGCGCTGCCTCTCAG  
GGGCCCCAGCGCTGCCAAGAGGAAGTCTCGAGGCCCGGGCAGGGAAGGG  
GGCACGGGCTTCCCAGGGCCCGCGGCCGAGCAGGAAGTTGGCCAGGGCA  
CGGCCGTGAGCGGAGCGGGCAGGGCTTTCTCAGGAGCGCGGGCGAGGCCGG  
CGCTGGAGGGGCGAGGACCGGGTATAAGAAGCCTCGTGGCCTTGCCCGGGC  
AGCCGCAGGTTCCCCGCGCGCCCGAGCCCCCGCGCC

FIG. 8

GTTCTCTGTTTTGTGTTGGTAGGCGTTGCTTTCTTGGTGGATTCACTGGCCAA  
CCTGTGGTAGAACCGTGCTGCCATTGCTACAGCTGCAGAGCTGTGGCAG  
GGGCTGTGCTAGCCTACCAATTAAGCCACTTGGCCATCTGAGGTTTCATGCT  
ACCCAGCTGGGCATCCCATTGGATCCTCTCATAGATGGTTCCAGGAAGTGGCT  
CACCAGCTGGGCCCTGAGGCTGTAGGAGCTGTGAAGTCACTGCTGGGGGCC  
CTGACAACGTTCCGT

FIG. 9A

VLFCFVLVGVAFLVDSLAKPVVEPVAAIATAAEAVAGAVPSLPLSHLAILRFIVTSL  
GIPLDPLIDGSRKCVTELGPVAVKSLLGALTTFG

FIG. 9B

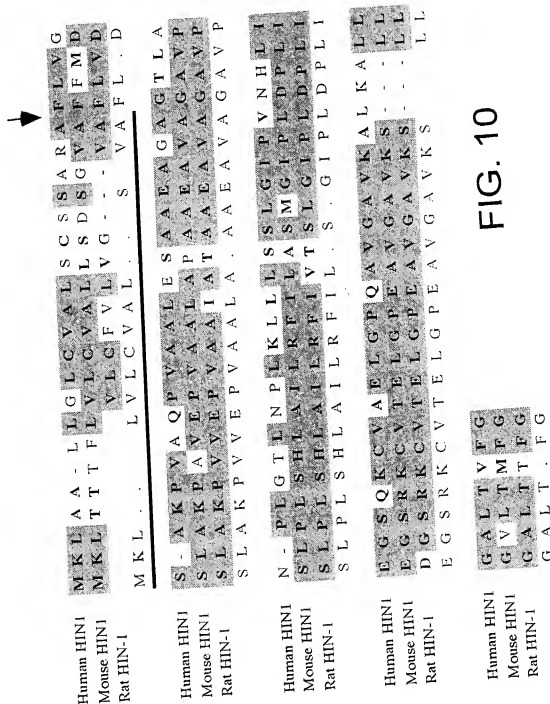
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TACAGCTGCAGAGGCTGTGGCAGGGGCTGTGCCATGCTACCAATTAAGCCAC  
TTGGCCATCTGAGGTTTCATGTCAGCAGCCTGGGCATCCCATTGGATCCTCT  
CATAGATGGTTCCAGGAAGTGCCTACCCAGCTGGGCCCTGAGGCTGTAGGA  
GCTGTGAAGTCACTGCTGGGGGCCCTGACAACGTTCCGT

FIG. 9C

FLVDSLAKPVVEPVAAIATAAEAVAGAVPSLPLSHLAILRFIVTSLGIPLDPLIDGS  
RKCVTELGPVAVKSLLGALTTFG

FIG. 9D





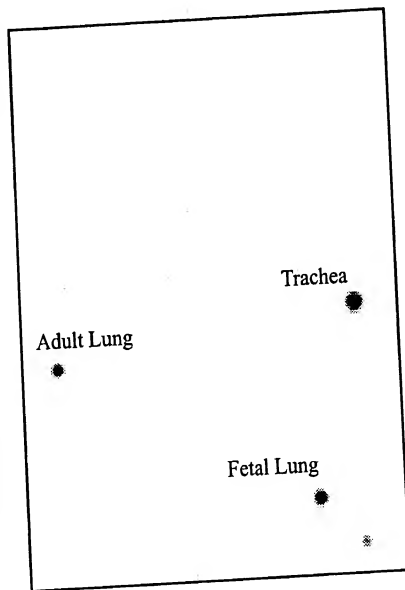


FIG. 11A

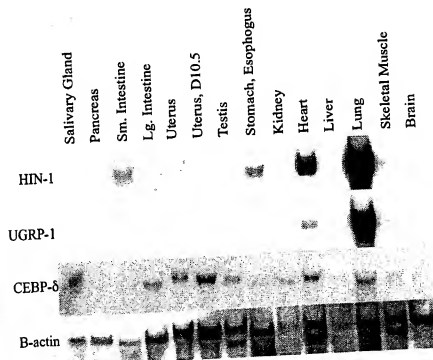


FIG. 11B

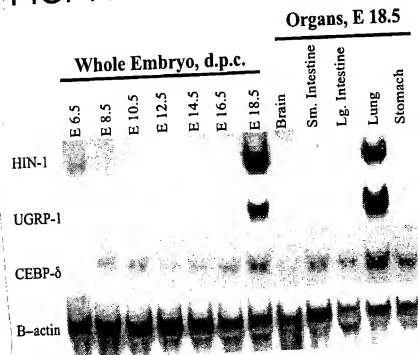


FIG. 11C

Appln No.: 10/081,817  
Applicant(s): Kornelia Polyak et al.  
Title: A TUMOR SUPPRESSOR GENE

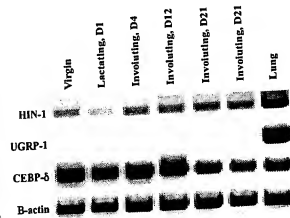


FIG. 11D

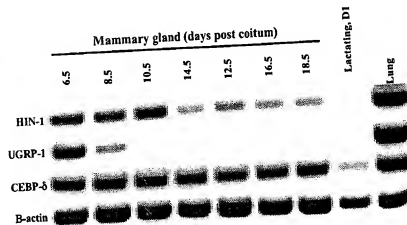
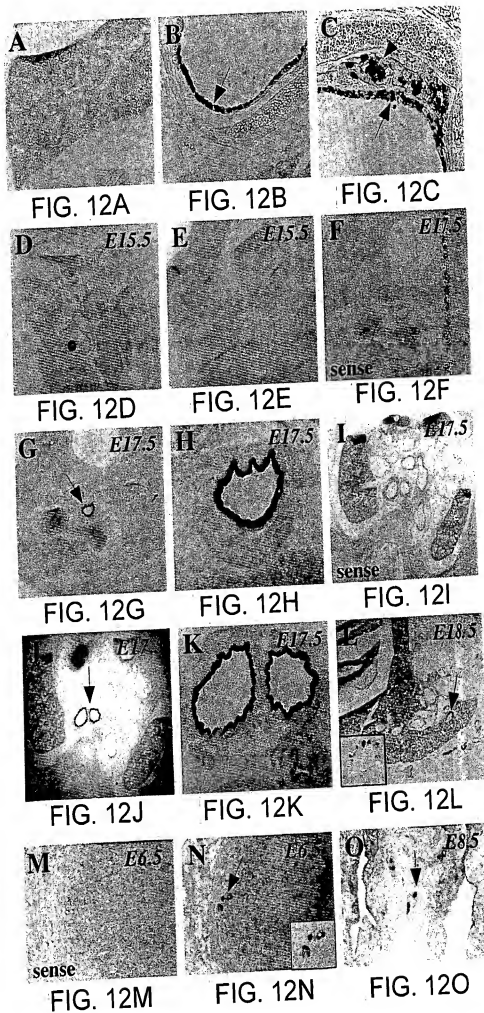


FIG. 11E



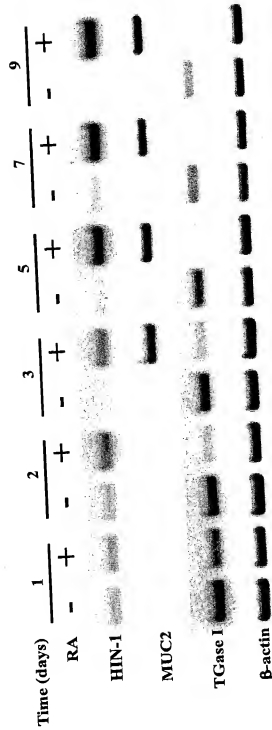


FIG. 13

Human UGRP-1  
 Human HIN-1  
 Drosophila CG13068  
 Drosophila CG13674

M K F L A V C F E A V V A A K P G I V A T A T A I N K V L L P D K L P P E S A A E E G A G E V  
 M F E S A A L G L C V A L S C S - E A R A F L V G S A K P P A Q P V A A G V T A T S Q Y V  
 M K F L A V C F E A V V A A K P G I V A T A T A I N K V L L P D K L P P E S A A E E G A G E V

Human UGRP-1  
 Human HIN-1  
 Drosophila CG13068  
 Drosophila CG13674

D E I P P M D P L K L L P K T L G S E R V E V E L L R K C V N F T G P Q Q V G A V  
 A P P G T L N A A P V V A A A Y T A A A Y T - - - - - S Q K C V A A T A A T A P V A A Y  
 A R N F N G V A A P P A A Y T A A A Y T A P V A A A Y T A P V A A A Y T A P V A A A Y T A  
 N S V A H S A A P P A A Y T A A Y T A P V A A A Y T A P V A A A Y T A P V A A A Y T A

Human UGRP-1  
 Human HIN-1  
 Drosophila CG13068  
 Drosophila CG13674

K E - L E A L - - - - - S H L V  
 K E - K A L L - - - - - G A L V F G  
 S A Y Y A A P Y S - - - - - A Y T V L  
 Y T A I R A A T P P A A P I A A P V A A Y A P I A A A A P V L L K K

FIG. 14A

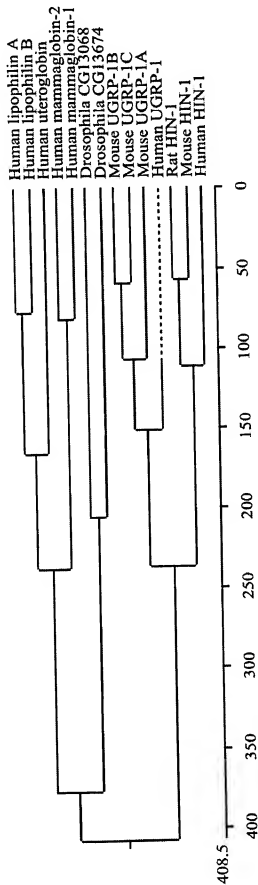


FIG. 14B



ATGTTCAAGCTGTCTGCCCTCGTTGTCCTGTGCGCTCTGGTGGCCTGCTCCTCG  
GCTGAGCCCAAGCCCGCTATCCTGGCCGCCGCTCCAGTGGTTGCAGCTGCTCC  
TGCCGGCGTGGTCACCGCTACCAGTTCGCAGTACGTGGCCCGCAACTTCAAC  
GGTGTGGCTGCTGCTCCAGTTGTTGCCGCTGCCTACACCGCTCCAGTTGCCG  
CGCTGCCTATACCGCTCCAGTTGCCGCCGCTGCTTATACCGCTCCAGTTGCCG  
CTGCCTACTCTGCTTATCCGTATGCCGCTACCCTACAGCGCTGCATACAC  
ACTGTTTTG

FIG. 15

ATGAAATTCCTCGCCGCTGCTTCTTCGCTGTTGTGGCTGTGGCTGCTGCCAA  
ACCCGGTATTGTGGCTCCTCTGGCCTACACCGCTCCGGCTGTGGTGGCCAGT  
CCGCCTACGTGGCTCCCTACGCCTCCAGCTACACCGCCAACCTCGTGGCCAC  
AGCGCCGCCTTCCAGCTGCCTACACCGCCGCCTACACTGCTCCCGTTGCTGC  
TGCTATACCGCTCCAGTGGCTGCTGCTTATACCGCTCCAGTGGCCGCTGCGT  
ACGCGCCCCCAGCTGCCTATACCGCTGCCTACACGCCCCCATTGCCCGTTAT  
GCCGCCACCCCTTCGCAGCACCCATCGCCGCTCCCGTGGCTGCCGCTACAC  
CGCCCCATCGCCGCCGCTGCCCGAGTTCTGCTGAAGAAG

FIG. 16